

19980314.qrp v01\_n029.qrs.980314

Date: Sat, 14 Mar 1998 19:03:15 EST  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 1029

QRP-L Digest 1029

Topics covered in this issue include:

- 1) [5982] Re: Elmer101 Schematics  
by chunt@macromedia.com (Christian Hunt)
- 2) [5983] Re: The Balanced Ham  
by "Paulette Quick, WB9VHF" <plquick@facstaff.wisc.edu>
- 3) [5984] homemade Screwdriver Ant.(DK3)  
by "rohre" <rohre@arlut.utexas.edu>
- 4) [5985] Re: Elmer101 Schematics  
by "John J. McDonough" <jjmcd@mdn.net>
- 5) [5986] SG-2020  
by K4NK <K4NK@aol.com>
- 6) [5987] Re: Elmer101 Schematics  
by chunt@macromedia.com (Christian Hunt)
- 7) [5988] SG-2020  
by Goemans <jgoemans@facstaff.wisc.edu>
- 8) [5989] to bob kellogg  
by "Wayne Barnhart" <wb7whi@triax.com>
- 9) [5990] Re: ICOM Level Converter Schematic  
by "Hugo W. Catta" <catta@ibm.net>
- 10) [5991] Re: It takes a super antenna and expensive equipment to QS0..  
by Peter Larsen <larsenp@cadvision.com>
- 11) [5992] Re: TS 520S or TS120S power  
by LYN WILLIAMS <designserv@ipass.net>
- 12) [5993] [Fwd: SMiTe Beacon NOW!]  
by Paul Stroud <aa4xx@ipass.net>
- 13) [5994] NW20 is Done!  
by Chuck Carpenter <w5usj@webwide.net>
- 14) [5995] Re: TS-570 Kenwood  
by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
- 15) [5996] How to make traps  
by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
- 16) [5997] Re: ICOM Level Converter Schematic  
by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
- 17) [5998] RE: ICOM Level Converter Schematic  
by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
- 18) [5999] Elmer 101 Schematic printing  
by "D.K. Philbin" <dphilbin@slonet.org>
- 19) [6000] Re: The Balanced Ham (Long)

- by kd4zkw <kd4zkw@amsat.org>
- 20) [6001] DK3 Bootleggers.  
by Jess Gypin <jessqrp@concentric.net>
- 21) [6002] QRP BEACON REPORT (LATE)  
by Pete Rossi WA3NNA <wa3nna@pete.resuba.com>
- 22) [6003] FS: Ten Tec Argonaut 505 QRP CW/SSB Xcvr & Accessories  
by "Dick Schneider" <rschneid@ix.netcom.com>
- 23) [6004] FS:HW9 & Accessories  
by "Dick Schneider" <rschneid@ix.netcom.com>
- 24) [6005] Re: DK3 Bootleggers.  
by "George T. Baker" <w5yr@swbell.net>
- 25) [6006] On the road again  
by David Adams <adamsclan@netgate.net>
- 26) [6007] Re: SG-2020  
by "Arjen Raateland, FEI/Impacts Research" <Arjen.Raateland@vyh.fi>
- 27) [6008] Marconi sites  
by Frank G3YCC <g3ycc@g3ycc.prestel.co.uk>
- 28) [6009] Re: How to make traps  
by Bruce Muscolino <w6toy@pop.erols.com>
- 29) [6010] RE: ICOM Level Converter Schematic  
by Bruce Muscolino <w6toy@pop.erols.com>
- 30) [6011] Re: DK3 Bootleggers.  
by Bruce Muscolino <w6toy@pop.erols.com>
- 31) [6012] Re: How to make traps  
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 32) [6013] Re: Elmer101 Schematics  
by "Arjen Raateland, FEI/Impacts Research" <Arjen.Raateland@vyh.fi>
- 33) [6014] Re: April 98 QRP ARCI Quarterly  
by K4AHK@ix.netcom.com
- 34) [6015] Elmer101 - Tools  
by launerb@crl.com (William H. Launer)
- 35) [6016] Re: DK3 Bootleggers.  
by Jess Gypin <jessqrp@concentric.net>
- 36) [6017] Re: On the road again  
by Joe Gervais <vole@primenet.com>
- 37) [6018] THANKS FOR KILLING THE GOLDEN GOOSE  
by ARDUJENSKI <ARDUJENSKI@aol.com>
- 38) [6019] Re: Forwarding to Packet!  
by "Bob Edwards, W4ED" <w4ed@flash.net>
- 39) [6020] N7MFB's E-mail Adr change  
by Bill Todd <bill@willapabay.org>
- 40) [6021] Re: Elmer101 Schematics  
by Brian Chesire <BCChesire@worldnet.att.net>
- 41) [6022] Re: Elmer101 Schematics  
by Stanley Wilson <microres@crl.com>
- 42) [6023] Re: ICOM Level Converter Schematic  
by Tim Ahrens <tahrens@inetport.com>
- 43) [6024] Re: The Balanced Ham (Long)

by Joe Smith <joey@cooldude.com>  
44) [6025] Fwd: FS: Rare ICOM IC-731S QRP HF xcvr \*REPOST\*  
by N3BJ <N3BJ@aol.com>  
45) [6026] Re: The Balanced Ham (Long)  
by "Brian K. Short" <shortckt@primenet.com>  
46) [6027]  
by tedkell@juno.com (Ted Kell)  
47) [6028] Re:DK3, Packing material:  
by w7dib@juno.com (Ralph Kline)  
48) [6029] WQ4RP/NA67 Portsmouth Island QSL's  
by Paul Stroud <aa4xx@ipass.net>  
49) [6030] Re: beacons  
by Paul Stroud <aa4xx@ipass.net>  
50) [6031] Membership info - QRP-ARCI  
by Jim Stafford W4Q0 <w4qo@america.net>  
51) [6032] Cascade  
by n4js@pobox.com  
52) [6033] Re: newbie  
by Mike Martin <mmartin@netins.net>  
53) [6034] N6WG  
by Bruce Rattray <rattray@gpfn.sk.ca>  
54) [6035] FOX LOG 03-04-98 FINAL (?)  
by SEAB&SHARON LYON <SSLYON@worldnet.att.net>  
55) [6036] Elmer 101 PostScript Printing on the Mac  
by "James R. Duffey" <ji3m@maxwell.com>

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Date: Fri, 13 Mar 1998 16:30:26 -0800  
From: chunt@macromedia.com (Christian Hunt)  
To: adams@chuck.dallas.sgi.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [5982] Re: Elmer101 Schematics  
Message-ID: <v02140b13b12f7e6decce@[192.168.22.76]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>2. There is also the PostScript file for producing this image IF you  
> have postscript capability and a postscript printer. In the  
> PC world of Windows 3.1, Windows 95, and Windows NT I haven't  
> clue as to how useful this is going to be. So if you are  
> successful, in a short note give the menu as to how you did it  
> to the group at large. I'm sure there will be a few questions.  
> Limit one per O/S and customer please. There seems to be some  
> problem with some systems getting the file and then not sending  
> it unmodified to the PostScript printer so that it prints  
> correctly. The file is in ASCII but don't bother reading it.

> It gets converted to lines on the printer when working correctly.

Depending upon how the printer is configured under Windows (i.e. usable from DOS, etc) you \_should\_ (if you printer is PostScript) be able to just do the following:

```
copy <filename> <printer device>
```

Example:

```
copy schematic.ps LPT1:
```

```
copy schematic.ps PRN:
```

Which should yield the desired result. Occasionally, due to wierd printers, you may get a dump of the PostScript source, which is bad because it will be many many pages... :)

Mac users should be able to just grap DropPS or something like that to dump raw PostScript to the printer. Windows users without postscript printers can opt to find and install GhostScript, the Free Software Foundations implementation of PostScript that has utilities for viewing PS files onscreen (yipee!) and printing to non-postscript printers.

Hope that helps and does not confuse the issue. :)

73 de KF6IHU - Christian

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Christian O. Hunt - QA Punk & Unix Demigod  
Macromedia San Francisco - x2314

-----  
Date: Fri, 13 Mar 1998 18:25:00 +0000  
From: "Paulette Quick, WB9VHF" <plquick@facstaff.wisc.edu>  
To: qrp-1@Lehigh.EDU  
Subject: [5983] Re: The Balanced Ham  
Message-ID: <v03007806b12f26f5751f@[144.92.104.132]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I am at the other end of the spectrum. It's been said of me that I have the kind of personality that the thing I want to do the most is the thing I find the most difficult to do. Doing things I enjoy can be difficult. I'm not 100 percent that way, thank goodness, as I do have the five extremely

loving and wonderful birds, including Milliwatt the budgie and Sierra the cockatiel. But to actually \*sit down and do radio,\* whether that means getting on the air or building something, well that's tough as it cores to the very center of my being.

Therefore, while I don't intend to neglect my dear birds, friends, brothers, activities and volunteer work, I promise to do MORE radio.... and to finally build something, for heavens sake, and.....and.....and even try out the 80 mtr transceiver that Preston sold to me a few years ago!

Paulette Quick, WB9VHF  
Madison WI  
plquick@facstaff.wisc.edu

-----  
Date: 13 Mar 1998 18:38:02 -0500  
From: "rohre" <rohre@arlut.utexas.edu>  
To: qrp-l@Lehigh.EDU  
Subject: [5984] homemade Screwdriver Ant.(DK3)  
Message-ID: <n1322308157.50217@msmailgw1.arlut.utexas.edu>

Hi Gang,  
got to jump in here and brag on Hal, W5MDL, here in Austin Tx. He is an avid woodworker, and came up with a low/no cost lathe for winding DK3 coils.

He had a motor from a Barbecue rotisserie. To that he coupled a piece of all thread rod, and installed a nut captive in a U shaped box, that holds the coil while grooving it first and then winding. (There might be a couple of nuts, one on each box end to serve as bearings.)

Anyway, he clamps a tool bit to the frame that supports the box, but lets the box move toward the motor, to cut the groove at the threads per inch of the all thread rod, on the PVC pipe that is to be the coil form.

With a variable speed control on the BBQ motor, he can slowly cut the groove as the box winds down the all thread. I think he has wood clamps that hold the PVC pipe but still allow it to rotate to cut the thread the full circumference. But I think you get the idea in general.

After the thread is cut, the rig is used to wind the copper enamel wire onto the coil form. The finished coils look as good as the photos of commercial DK3 in QST or other ham mags.

The top of the brass metal plumbing pipe which forms a rain tube over the

antenna coil on the car, has a collar of finger stock of phosphor bronze that grips and shorts out coil turns, whose enamel has been removed where the collar slides over the wire.

The Sleeve is driven up and down the coil by the threaded shaft turning in a nut clamped to the pipe sleeve and driven by the cordless screwdriver mounted in the base pipe of the antenna that mounts either to a hitch plate without the ball, or homemade bracket mounted sturdily to the under parts of a fender. Of course, the DPDT reversing switch you mount up in the cab replaces the off on sw. of the screwdriver. Some put a dropping resistor right in the base of the antenna for the battery motor of the converted screwdriver to not have too fast a speed.

Hal uses not a SWR indicator, but a field strength meter on his dash, and jogs the coil tap for maximum output from the antenna. With a couple of whips, he can cover say 40 to 10 meters, or use a CB whip as someone mentioned for 75 and 160.

If you want to contact Hal, his email is happyhal@juno.com, I believe.

Some of my description is a bit sparse for the handout from Hal's program on how to do this is at home, but he can make one for you, (coil that is, and give you an assembly sheet for the other parts that are plumbing and standard ham antenna mobile hardware.

-----  
Date: Fri, 13 Mar 1998 19:45:24 -0500  
From: "John J. McDonough" <jjmcd@mdn.net>  
To: <chunt@macromedia.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [5985] Re: Elmer101 Schematics  
Message-ID: <199803140044.4531800@midland2.mdn.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

> Depending upon how the printer is configured under Windows (i.e.  
> usable from DOS, etc) you \_should\_ (if you printer is PostScript)  
> be able to just do the following:

For those of you who don't have a PostScript printer (which I assume is the overwhelming majority), there is a freeware program on the net called GhostScript, which can print PostScript to most popular printers. There are versions for Windoze, OS/2 and eunuchs. Beware, tho, even tho it's free, it's BIG. (Sorry, I couldn't find the URL in a quick look around.)

73 de WB8RCR

-----  
Date: Fri, 13 Mar 1998 19:57:47 EST  
From: K4NK <K4NK@aol.com>  
To: qrp-1@Lehigh.EDU  
Subject: [5986] SG-2020  
Message-ID: <1a9b9fb9.3509d60a@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

I am the Section Manager for ARRL here in S.C. and get my QST a few days earlier than most. Check out the ad for the 2020 on page 156 of the april issue.  
Les K4NK

-----  
Date: Fri, 13 Mar 1998 17:20:17 -0800  
From: chunt@macromedia.com (Christian Hunt)  
To: jjmcd@mdn.net  
Cc: qrp-1@Lehigh.EDU  
Subject: [5987] Re: Elmer101 Schematics  
Message-ID: <v02140b15b12f8a89c546@[192.168.22.76]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>For those of you who don't have a PostScript printer (which I assume is the  
>overwhelming majority), there is a freeware program on the net called  
>GhostScript, which can print PostScript to most popular printers. There  
>are versions for Windoze, OS/2 and eunuchs. Beware, tho, even tho it's  
>free, it's BIG. (Sorry, I couldn't find the URL in a quick look around.)

Just tracked down the MS-DOS/Intel port of GhostScript... you can find it  
at the following URL:

<ftp://prep.ai.mit.edu/pub/gnu/ghostscript-2.6.1msdos.tar.gz>  
<ftp://prep.ai.mit.edu/pub/gnu/ghostscript-fonts-2.6.2.tar.gz>

Keep in mind for any distribution you will also need gzip to uncompress it,  
and a copy of tar... I think this is getting out of hand for the list...  
print the jpeg unless you will need GhostScript for other things. It's  
nifty, but most people won't ever use it again. :)

---

Christian O. Hunt - QA Punk & Unix Demigod  
Macromedia San Francisco - x2314

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Date: Fri, 13 Mar 1998 19:33:35 -0600  
From: Goemans <jgoemans@facstaff.wisc.edu>  
To: qrp-1@Lehigh.EDU  
Subject: [5988] SG-2020  
Message-ID: <199803140130.TAA32154@mail1.doit.wisc.edu>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>Return-Path: owner-qrp-1@Lehigh.EDU  
>Date: Fri, 13 Mar 1998 19:57:47 EST  
>Reply-To: K4NK@aol.com  
>Sender: owner-qrp-1@Lehigh.EDU  
>From: K4NK <K4NK@aol.com>  
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
>Subject: SG-2020  
>X-Listprocessor-Version: 8.1 beta -- ListProcessor(tm) by CREN  
>  
> I am the Section Manager for ARRL here in S.C. and get my QST a few days  
>earlier than most. Check out the ad for the 2020 on page 156 of the april issue.  
> Les K4NK  
>

UH OH !!!!!!!!!!!!!!!!!!!!!!!

\*\* Not the April Issue! \*\*

72, Paul

Paul R Goemans WA9PWP  
1508 Sundt Lane  
Stoughton, Wi. 53589-1069 608-877-4151  
QRP ARCI 7291 NorCal 1226 QRP-L 127 FISTS 2153 G QRP 9879



-----  
Date: Fri, 13 Mar 1998 17:35:55 -0800  
From: "Wayne Barnhart" <wb7whi@triax.com>  
To: "QRP List" <qrp-l@Lehigh.EDU>  
Subject: [5989] to bob kellogg  
Message-ID: <199803140131.RAA02102@smtp.triax.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Sorry Bob but lost your e-mail address.  
I got the cores ok and put them in. Now the driver is driving like its  
supposed to. Of course that opened up a whole nother can of worms as the  
driver is doubleing the 7040 freq to 14080. It just never seems to stop :)  
Thanks again.

Wayne WB7WHI  
Spokane, Wa.

-----  
Date: Fri, 13 Mar 1998 20:44:57 -0500  
From: "Hugo W. Catta" <catta@ibm.net>  
To: gaston1@ibm.net  
Cc: tahrens@inetport.com, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [5990] Re: ICOM Level Converter Schematic  
Message-ID: <3509E119.154AD113@ibm.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hugo W. Catta wrote:

> Hi, Tim!  
>  
> I 've used the very same interface you saw in QST from 1992. I have  
> the mag. with me. If you still need the article, I can go out tomorrow,  
> make a fotocopy and mail it to you.  
>  
> I've been using it for more than four years with the EQF Logbook and  
> works great.

> It is so simple that I remember I made a PCB just looking at the  
> published picture seen from the components side (...-.). The total price  
> can't be over 5 or 6 dollars (provided you have a couple of cheap  
> transistors and resistors in your junk box).  
> BTW, the latest version of the LOG-EQF (ver. 8.67) works like silk under  
> any OS ( except probably MAC, ;- )  
>  
> Let me Know.  
> 73  
> Hugo  
> CX9AAK/W2  
>  
> Tim Ahrens wrote:  
>  
> > Does anyone have a copy of the QST that has  
> > a Low Cost PC Interface for Icom Radios? This would be  
> > from QST, July 1992 page 37-38. Actually, I just need the  
> > schematic.  
> >  
> > Thanks all!  
> >  
> > Tim W5FN

-----  
Date: Sat, 14 Mar 1998 01:49:43 +0000  
From: Peter Larsen <larsenp@cadvision.com>  
To: jeverhar@camden.lmco.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [5991] Re: It takes a super antenna and expensive equipment to QSO..  
Message-ID: <3509E237.C19B972A@cadvision.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

>  
> Intercourse  
> Paradise  
> Bird In Hand  
> Blue Ball

You State side guys don't even make the first cut....  
Try some of the NF. names on for size:

Dildo  
Cox's Cove  
Conception Bay  
Aillik  
Woody Point  
Voisey Bay  
Trepassey  
Sugarloaf Head

... need I go on?? And this one of the smaller populations  
in Canada. Don't get me going on AB. place names.

Peter  
VE6NAO

-----  
Date: Fri, 13 Mar 1998 20:44:11 -0800  
From: LYN WILLIAMS <designserv@ipass.net>  
To: wd4nak@juno.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [5992] Re: TS 520S or TS120S power  
Message-ID: <350A0B1B.BA5F58C@ipass.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Charles,  
I almost never use over 5 watts on my TS-520SE.  
Lyn, W4WDN

wd4nak@juno.com wrote:

> Say guy's can you cut the power down to 5 watts on a TS520S and a TS120S  
> I need to know some one set me straight.  
> Charles  
> WD4NAK  
>  
> -----  
> You don't need to buy Internet access to use free Internet e-mail.  
> Get completely free e-mail from Juno at <http://www.juno.com>  
> Or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Fri, 13 Mar 1998 21:26:53 -0500  
From: Paul Stroud <aa4xx@ipass.net>  
To: QRP-L <QRP-L@Lehigh.EDU>  
Subject: [5993] [Fwd: SMiTe Beacon NOW!]  
Message-ID: <3509EAED.B46E120B@ipass.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Paul Stroud wrote:

>  
> Gang,  
>  
> Take a listen for the KF4WFJ/SMiTe beacon. He's on 3687 KHz for  
> the next hour or so. Signal strength is good. State QTH embedded in  
> beacon message. Happy listening,  
> Paul AA4XX

-----  
Date: Fri, 13 Mar 1998 20:22:00 -0600  
From: Chuck Carpenter <w5usj@webwide.net>  
To: qrp-l@Lehigh.EDU  
Subject: [5994] NW20 is Done!  
Message-ID: <3.0.1.32.19980313202200.00692960@mail.webwide.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi Folks,

And, like the ZM-2 I built earlier, it works too and the first time with no glitches. This is the first kit of any substance I've built in over 25 years. Thanks to the pair of 3X flip-up magnifiers I found I was able to see quite well. With my bifocals, I had combinations of 4 different mags and focal lengths. It was a great feeling once again to tune across the 20 meter band with something I had put together myself.

The EMTECH NW20 kit is well packaged and anyone with some kit building experience would have no problems with its construction. Parts for each transceiver section are contained in separate envelopes. The hardware and unit-specific components are also in separate envelopes. Each section is tested as you complete assembly. The receiver sensitivity is great and seems as sensitive as my TS-430 (or maybe a little better). I would like to have had the quality of signal and band spread this little rig has back when I built my first receiver out of the 1955 handbook.

In a previous life, I had many opportunities to process complex electronic equipment and circuit boards for assembly, test, trouble shooting, and repair. I recognize the NW20 as a quality product. If anyone is considering the EMTECH NW series as a project I would tell them to go for it.

I'd like to arrange a sched on 20 meters for a listening test. I'm still tweaking things and would like an on-the-air signal report. Thanks to all who offered help in the event that I had needed it.

72/73 -- Chuck, W5USJ, EM22cv  
Rains County, Eagle Capitol of Texas  
ARCI # 5422, QRP-L # 1306, FISTS # 3984

-----  
Date: Sat, 14 Mar 1998 10:02:10 +0800  
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>  
To: CLESKIE@um-f1.umd.umich.edu  
Cc: qrp@pandora.lugs.org.sg  
Subject: [5995] Re: TS-570 Kenwood  
Message-ID: <3509e524.pandora@pandora.lugs.org.sg>

On Fri, 13 Mar 1998 09:58:37 EST5EDT, "CHARLES LESKIE" <CLESKIE@um-f1.umd.umich.edu> wrote:

> I was reading that the Kenwood TS-570 will crank down from 100  
> watts, to 5 watts right out of the box. Does anybody have any  
> experience or comments about this rig? I've had my eye on it.

Hi Chuck,

Yes, it will go down to 5W but no less. It is digitally controlled so you're probably unlikely to get any lower than 5W out of it. It is a nice rig actually, very compact.

Despite purported problems, it still turns out to be quite a nice rig to play with. It's ATU is not too efficient but at QRP levels, no problems at all. If you're just doing CW then you've no problems at all.

There is only place for one optional filter, so you have to pick either CW or SSB narrow filters but not both. I picked the CW narrow filter but it would have been nice to have not options.

It does not have PBT but has IF Shift.

The DSP is okay, in some situations but I found myself not using it that much, maybe only 20% of the time. DSP always seems to introduce some

distortion, not just this DSP but most DSP units.

The TX audio is very good, especially with the DSP processor and all. I've had many excellent reports of the audio, unsolicited ones especially. A few ergonomic quirks can be worked around.

Kenwood's computer control protocol is much better than ICOM's and this one goes up to 57600 baud if it means anything. Everything is built in and the 2 antenna ports is very neat. It remembers which port you selected for a particular frequency range.

If you have specific questions, I'd be more than happy to answer them.

73 de 9V1ZV Daniel

--

```
+-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      |                               |
| QRP-L #667 | 9V1ZV@amsat.org                       |
+-----+-----+
```

-----  
Date: Sat, 14 Mar 1998 10:23:22 +0800  
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>  
To: qrp@pandora.lugs.org.sg  
Subject: [5996] How to make traps  
Message-ID: <3509ea1a.pandora@pandora.lugs.org.sg>

Hi Guys,

I've been wanting to convert my single band dipole (20M) which has worked very well for me, into a trapped dipole for 15M (and maybe 17 and 12) but have not quite got around to it.

I need to know a couple of things:-

1. How will adding traps affect performance on 20?
2. Are there limitations to what bands I can trap it for? I see commercial dipoles trapped for certain bands only, eg. 20/15/10 but seldom 20/17/15. Is there a reason for this?
3. How do I build a trap? I see some designs in the ARRL Handbook but these appear to be quite large. Are there some small designs that can handle up to 150W?

4. How does one evaluate the performance of a trap?

Thanks.

73 de 9V1ZV Daniel

--

```
+-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      |                          |
| QRP-L #667 | 9V1ZV@amsat.org                    |
+-----+-----+
```

-----

Date: Sat, 14 Mar 1998 10:12:54 +0800  
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>  
To: bdenton@tenet.edu  
Cc: qrp@pandora.lugs.org.sg  
Subject: [5997] Re: ICOM Level Converter Schematic  
Message-ID: <3509e7a8.pandora@pandora.lugs.org.sg>

On Fri, 13 Mar 1998 14:05:37 -0600, "Bill Denton" <bdenton@tenet.edu> wrote:  
> > Does anyone have a copy of the QST that has  
> > a Low Cost PC Interface for Icom Radios? This would be  
> > from QST, July 1992 page 37-38. Actually, I just need the  
> > schematic.

Hi,

Actually if Tim wants a converter, I found a really nice one and much simpler to construct from the Internet. I think he would want to look for the schematics in a file called "801IF.GIF". I can't recall the web-site but an AltaVista search might show this file up. This design is by "Terzon Systems". I tried it and it is compact enough to fit into a DB-9 connector. In fact, I built 2 of them into a DB-9 connector using SMT 74HC04 and put an LED to indicate activity. Pretty neat.

73 de 9V1ZV Daniel

--

```
+-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      |                          |
| QRP-L #667 | 9V1ZV@amsat.org                    |
+-----+-----+
```

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Date: Sat, 14 Mar 1998 10:36:46 +0800  
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>  
To: qrp@pandora.lugs.org.sg  
Subject: [5998] RE: ICOM Level Converter Schematic  
Message-ID: <3509ed3f.pandora@pandora.lugs.org.sg>

Hi Guys,

Actually, regarding the particular 1992 QST circuit, I seem to recall that there was some design error somewhere in the circuit somewhere. There appears to be a missing resistor or a wrong resistor value somewhere that resulted in the wrong voltage levels.

However, that does not stop the circuit from working. I know, I used one for years. What I did discover was that the circuit was prone to "slow startup". It is hard to explain but roughly, the TX and RX share the same line so you should see whatever you send echoed back. Due to the design, the first few bytes sent after power up, tended to be echoed back wrongly. This means that I have to resend the initial codes a few times and this is in fact done by some software as people discovered some erratic behaviour in the initialization sections, sometimes the inability to recognize the presence of the rig attached.

I pretty much accepted this as CI-V design flaw until I tried some other circuits. In particular, the circuit by Terzon Systems (801IF.GIF) available from the Internet which used a 74HC04 (maybe HCT but I forget) does not exhibit this problem. This resulted in more reliable starts and data integrity.

Of course, in a properly designed protocol implementation, you'll probably not see this problem much at all, and is in fact a very minor problem. I just thought I'd mention it for those people who are writing their own software and don't know why the rig does not seem to be responding correctly.

73 de 9V1ZV Daniel

--

```
+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      |                               |
| QRP-L #667 | 9V1ZV@amsat.org           |
+-----+
```

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Date: Fri, 13 Mar 1998 18:36:42 -0800



From: "D.K. Philbin" <dphilbin@slonet.org>  
To: qrp-1@Lehigh.EDU  
Subject: [5999] Elmer 101 Schematic printing  
Message-ID: <3.0.5.32.19980313183642.008109b0@slonet.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Dear fellow Qrp'rs

I went to Chuck's web site and viewed the SW-40+ schematic. I saved the image using the file save command on my browser (I saved it as a jpeg). Next I used the software that came with my Epson Stylus 500 printer (Adobe Photo deluxe) to print the file. I printed it using the landscape paper layout on my print and all is well.

It may not be postscript but it is easy to read and I have an appointment for a new perscription (and eye exam) on monday!

72,

D.K. Philbin KD6TK

-----  
Date: Fri, 13 Mar 1998 22:51:16 -0500 (EST)  
From: kd4zkw <kd4zkw@amsat.org>  
To: Joe Gervais <vole@primenet.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [6000] Re: The Balanced Ham (Long)  
Message-ID: <Pine.LNX.3.95.980313224528.11797C-1000000@danial.dialisdn.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 13 Mar 1998, Joe Gervais wrote:

> Are you spending enough time with family/friends?  
> Until recently I \*thought\* I was, but after putting  
> yet another relative in the ground last week, I sat  
> back and took a hard look at my life. I'd missed quite  
> a few bedtime stories for the kids while rabidly chasing  
> Foxii. DX was keeping me up at very odd hours, and  
> mornings that would've otherwise been spent playing  
> with the family were spent checking every band for  
> an opening.

I just found out two days ago ....

Funny you should mention this now. I have 2 relatives who are very ill, and I need to go and spend some time there. The thing about it is, I'm single. And I just started working on my first kit, the milliwatter transmitter. I can only say this, it's like knitting for sparkys. It's so relaxing to be doing something to keep me together. Yeah, you should spend time with your family. You should stop and smell the roses. But when the kids start making too much noise and the wife is screaming, remember how good it feels to build a kit. It'll keep you together.

```
-----  
| Curtis D. Levin kd4zkw | kd4zkw@amsat.org | QRP-L #1488 |  
| http://www.diaidsn.net/user/cdlevin |  
-----
```

-----  
Date: Fri, 13 Mar 1998 21:07:37 -0700  
From: Jess Gypin <jessqrp@concentric.net>  
To: qrp-l@Lehigh.EDU  
Subject: [6001] DK3 Bootleggers.  
Message-ID: <350A0289.A35D4DDD@concentric.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi all,

I have been watching the thread on the screwdriver antennas and it brought to mind something that I read on the web page for this antenna. This is a refernece to all the other companies out there that have copied the DK3 design. This is a direct quote from the DK3 web page.

"BOOTLEGGERS"

"Our 1993 data-base documents the full transactions with many of the bootleg manufacturers who purchased DK3 .. Screwdriver antennas from me. They then went into full commercial production without even so much as a "by your leave, sir" . No mention was made as to where they 'picked' (?) up the design. Some reprinted the copyrighted materials -- using white-out

to remove my call, headers,  
footers and copyright references - then sold their copies at swap meets.  
One did muster up enough  
initiative to attempt a new cover page revealing his intelligence by  
misspelling the word 'antenna' in 3  
inch high letters! What do they say? --- No honor among  
-----etc Nevertheless, the xyl,  
W6HMD, and I spent kilo bucks in materials, legal fees and hundreds of  
hours bringing the DK3 .. to  
the wireless world... I always tell my ham friends when I steal one of  
their ideas at least they get credit  
for a couple of weeks before claiming it as my own brain child!!!! The  
contributors are always credited  
in my books and compendiums. "

Interesting no?

--

Jess N0TFI <><

<http://www.concentric.net/~jessqrp> Personal Home page

<http://qsl.net/N0TFI> Fox Audio Page

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Date: Fri, 13 Mar 1998 23:54:25 -0500

From: Pete Rossi WA3NNA <wa3nna@pete.resuba.com>

To: qrp-l@Lehigh.EDU

Cc: wa3nna@pete.resuba.com

Subject: [6002] QRP BEACON REPORT (LATE)

Message-ID: <199803140454.XAA25674@pete.resuba.com>

Here is the summary report for the 40 meter QRP test beacon which ran over  
the weekend of September 27-28 1997

Let me start off with a few administrative items...

FIRST, I must apologize for the excessive delay in getting this report out  
but between work and other commitments, it just seemed like one thing after  
another kept coming up... and then when I did have a little extra time, I  
either simply forgot all about it or something else added to the delay.

Actually, my busy work schedule finally helped to create this report. Seems  
they gave me this nice laptop computer at work. So, on my last trip, I  
loaded the beacon mail file to it and I worked on the beacon report on

the plane ride out. Sure made the 3 hour trip pass quickly :-)

I really would like to run another beacon this winter/spring but my work schedule is going to make it difficult. The paperwork involved with putting these reports together is very time consuming and I am looking into more automated methods. More on this later.

SECOND, we had a bit of a problem during this beacon. You may remember that about half way through the weekend, someone posted the codewords to QRP-L. As soon as I was aware of this, I quietly changed all of the beacon codewords, by only one letter, to make new codewords. So, those of you who copied a codeword, on Saturday and then copied a slightly different word on Sunday... NO, you were not losing your mind.

After carefully going over all of the reports, I really could not detect anything that gave even the slightest indication that anyone took advantage of this situation, so I decided that the best (and simplest) solution would be to simply accept all reports as received. Anything else would probably have only penalized a few legitimate reports and also would have severely challenged my sanity in trying to figure it all out.

Needless to say, I will be doing my best to make some changes so that this situation can not happen again.. or at least will have minimal impact. More on this in a future posting.

And THIRD, I use the QRP-L CALLS2DIST function to determine the distances when doing the miles-per-watt calculation. It seems that this program has been changed sometime since the last beacon. The new version provides more information BUT also, for some stations, it is producing different distances than what the old version produced.

These differences are only a few miles but never the less, they are different than what I was using in the past. The new version seems to be more accurate, by often reporting slightly different distances for stations in the same city. There is not much I can do about this. I had considered using the old distances for stations who have submitted reports for previous beacons but I think that would only make things more confusing (and difficult) in the future. So I am simply going to go with whatever the new CALLS2DIST reports.

BEACON DESCRIPTION

=====

This beacon test made use of the same automatic power sequencer used in the previous beacon sessions. This sequencer permits the transmitter to be set at up to 6 different power levels over a 50 dB range. Custom software which drives it simply does the following:

```
DO FOREVER
  READ THE TIME OF DAY
  SELECT AND SET THE TX POWER LEVEL (based on minutes past the hour)
  CONSTRUCT AND SEND CW MESSAGE FOR THE SELECTED POWER LEVEL
END
```

That's about all there is to it. The power controller has a set of relays to select one of a group of pots used to set various TX power levels. Very "low tech" but effective.

The controlling computer is a home-built Motorola 6800 system that I designed and built back in 1979 (pre-PC days). The software is written in 6800 assembly language. It includes provisions for keying the transmitter at each power level for calibration, setting the power level and code word messages for each level, and setting the CW sending speed.

#### COMMENTS

=====

I made a few notes about conditions during the beacon period but now some 6 months later, they were not very clear and my memory is somewhat vague. Conditions were generally stable over both days with similar number of reports each day. Sunday may have had a few more.

The solar numbers looked about the same as they had been running for the past several months --- Typical "bottom of the sunspot cycle" conditions. The A index was somewhat elevated but the beacon was still well heard.

All in all I received reports from 46 stations who copied at least one codeword. There were maybe a half-dozen reports from stations reporting that they could make out the beacon but could not copy any codewords, and one or two reports of no copy at all. Did not receive any QSL cards from stations who just happen to run across the beacon. Usually I get a few.

The 46 reports came from 26 states and VE3.

```
CA CO CT DC FL GA IA KS KY LA MA MD MI
MO NC NE NH NV NY OH OK PA SC TN TX VA  ON
```

This is the highest number of states reporting from a single beacon yet. There was a pretty good showing from the states up and down the east coast but also two reports from CA and one from NV as well as a few scattered through the mid-west (CO, NE, OK)

Once again there was a wide representation of rigs and antennas. I have listed some of them in the report.

I would like to come up with an orderly way to report more detailed station information but if there are a decent volume of reports, it is difficult to present this information in a clear that is easy to read, and it quickly gets out of hand.

I keep all of the e-mail received for each beacon in separate mail folders and if anyone ever wants to review all of the reports in detail, I can forward a copy of the complete e-mail folder to anyone who is interested in reading all the details.

#### CERTIFICATES and QSL CARDS

=====

Certificates confirming reception of your lowest power level codeword received will be available again. Details will be sent out shortly after this report.

Reminder: Anyone who either requested a certificate from a previous beacon and never received it, or who did not request one but would like one now, just drop me some e-mail and we can print one for you. Just send your name/call and the date of the beacon.

#### FUTURE BEACONS

=====

I would like to do at least one more beacon before the summer.. The trick will be fitting it in to my work schedule. Also.. I had some minor antenna damage during one of the winter storms that past by a few weeks ago. It took down a tall tree that had been supporting one end of my 80 meter inverted-vee (nice and high). My plans to fix it will still get it up fairly high but not quite as high as it was. Also, the other leg of the 80 meter antenna is now hanging over the 40 meter antenna, so for the immediate future I have no 80 or 40 meter antennas... but hopefully not for long.

I will try to post any future beacon announcements here on QRP-L at least 5-7 days in advance.

And now the report details...

=====

WA3NNA/B      40 METER QRP BEACON      SUMMARY REPORT

0000z Saturday Sept 27 - 2400z Sunday Sept 28 1997

Sept 26 :	Solar flux 93	A-index 4
Sept 27 :	Solar flux 88	A-index 17
Sept 28 :	Solar flux 87	A-index 11

7021 KHz

16 Northwood Road, Newtown Square, PA 19073

15 miles west of Philadelphia  
FM29hx

Lat.	39 59 6 N
Long.	75 22 46 W
Elev.	415' ASL

Newtown Square coordinates from QRP-L (used in all calculations below)  
(I am aprox 1 mile east of this location)

Lat.	39 59 12 N
Long.	75 24 05 W

Transmitter power: The transmitter power was controlled automatically; set at 5 different levels; 2 minutes at each level, (4 minutes at 50 uW) according to the following schedule. A different codeword was sent at each power level. Power output levels were set using TEK 453 scope and 50 ohm dummy load. Power levels 10mW thru 1 watt were also checked with OHR WM-1 watt meter and a 50 ohm dummy load.

----- minutes past hour -----					power	-reference level-	
						(100W)	(1W)
:00-02	:12-14	:24-26	:36-38	:48-50	2 W	-17 dB	0 dB
:02-04	:14-16	:26-28	:38-40	:50-52	200 mW	-27 dB	-10 dB
:04-06	:16-18	:28-30	:40-42	:52-54	20 mW	-37 dB	-20 dB
:06-08	:18-20	:30-32	:42-44	:54-56	2 mW	-47 dB	-30 dB
:08-12	:20-24	:32-36	:44-48	:56-60	200 uW	-57 dB	-40 dB

TX antenna : Full size 40 meter inverted-vee, coax fed,  
center @ 55' running north/south

Message Format: VVV VVV <power> <4 letter codeword> DE WA3NNA/B QRP

The codeword was repeated 2 times at the 50 microwatt  
power level.

I have listed the stations copying the codeword grouped at each power level  
and then listed by miles/watt. Stations marked \* submitted reports for  
both codewords.

-----  
Congratulations to the following who successfully copied the codeword "MAIL"  
or "MAIN" at 200 microwatts. Good Job!

CALL	NAME	LOCATION	DATE/TIME	MILES	MILES/WATT
AA4XX	Paul Stroud	Raleigh NC	SEP 27 1245	351	1,755,000
N3GO	Gary O'Neil	Raleigh NC	SEP 28 1558	348	1,740,000
K8WVG	Les Jendro	UALR OK	SEP 28 1650	283	1,415,000
WA1QVM*	Joel Malman	Concord MA	SEP 27 1458	268	1,340,000
KE4IZH	Rick McNelly	Chesapeake VA	SEP 28 1619	226	1,130,000
N1QQV	Ken Freedman	Madison CT	SEP 27 1446	173	865,000
WD3P	Larry Cahoon	Croom MD	SEP 28 1847	113	565,000
KE3FL	Phil Karras	Mt Airy MD	SEP 27 1321	101	505,000

--- comments (in no particular order) ---

AA4XX - Interestingly, my only antenna since Hurricane Fran came along last  
year is an OCF 80M dipole, fed with LL, which has a major NULL in your  
direction for 40M. I'm going to do something about that soon, though.  
The rig was my trusty Wilderness Sierra. No form of DSP or external  
audio filtering was used.



K8WVG - Rx was Kenwood TS820S with 500Hz filter, and antenna was 40M dipole broadside N/S at 24 feet. I was working on my porch with the rig on listening to a QSO, and heard the beacon in the background.

WA1QVM - Did someone say "new codewords?" Hummm, One letter change... 200 uW on 40 meters ... Let me at it! Yeah, life goes on.

N1QQV - Actually, the 200 uw sig was darn near at ESP level, although the 2 watt sig has hit S9 here a couple of times this morning. Had the 500 hz filter on and the VBT cranked down to minimum on my TS930. Absolutely no copy at any level last night.(Friday)

WD3P - Rig - TS570s - Use of filters and DSP a must, did not use the preamp though, Sierra gave up at 2mW Mostly due to QRM from nearby stations. Need the DSP in line for it I guess. Ant. 40/80M dipole up 40 Ft. sitting East-West.

KE3FL - R: Yaesu FT-757 GX II, 100W Homebrew 80/40 meter dipole up 25 feet, with MFJ-941E tuner. The dipole is in a V configuration, the center a bit lower than the ends.

-----  
The following successfully copied the 2 milliwatt codeword "BANK" or "TANK"

CALL	NAME	LOCATION	DATE/TIME	MILES	MILES/WATT
AC5AM	Bob Stolzle	Natchitoches LA	SEP 27 1055	1138	569,000
K4NK	Les Shattuck	Greenville SC	SEP 27 2255	528	264,000
W3RDF	Don Shipman	No. Myrtle Beach	SEP 27 1828	462	231,000
WB8KRN	Richard Heindel	Lexington OH	SEP 28 0831	383	191,500
VE3VA*	Jeff Knight	Richmond Hill ON	SEP 27 1947	339	169,500
N01E	Frank Milos	Bedford NH	SEP 28 2042	286	143,000
K3ZQI	Ernie Young	Whitehall PA	SEP 28 1555	245	122,500
KV2X	Tom Jennings	Rochester NY	SEP 28 1408	239	119,500
KG2H*	Jim Polewczak	Gansevoort NY	SEP 27 1406	235	117,500
KA2QPG	Pierre Thomson	Rifton NY	SEP 28 1655	146	73,000
AA3MD	Craig Sterling	Washington DC	SEP 28 1631	114	57,000
K4CGY	James Owen	Mt Airy MD	SEP 27 1944	100	50,000
WA8MCQ	Mike Czuhajewski	Severn MD	SEP 28 2200	93	46,500

-----  
The following successfully copied the 20 milliwatt codeword "ROSE" or "RISE"

CALL	NAME	LOCATION	DATE/TIME	MILES	MILES/WATT
N6XU	Stan Goldstein	Watsonville CA	SEP 27 0715	2491	124,550
K0FRP*	Al Dawkins	Aurora CO	SEP 28 0400	1555	77,750
N4BP	Bob Patten	Plantation FL	SEP 27 1004	996	49,800
N2BRT	Adam Kanis	Wellman IA	SEP 28 0452	866	43,300
KF4AR	Rick Robinson	Charlotte NC	SEP 27 1417	704	35,200
W4FOA	Tony Martin	Chickamauga GA	SEP 27 1118	648	32,400
N4AOX	Clay Wynn	Maryville TN	SEP 27 2154	556	27,800
VE3ELA	Ken LaRose	Midland ON	SEP 27 1416	402	20,100
WB8KRN	Richard Heindel	Lexington OH	SEP 27 0904	383	19,150
K3TKS	G Danny Gingell	Silver Spring MD	SEP 27 1429	105	5,250
W3CV	Scott Bauer	Odenton MD	SEP 27 1805	94	4,700

-----  
The following successfully copied the 200 milliwatt codeword "TONE" or "TUNE"

CALL	NAME	LOCATION	DATE/TIME	MILES	MILES/WATT
K06KA	Rob Heiss	Atascadero CA	SEP 28 1124	2466	12,330
NR5E	David Kreinberg	Lewisville TX	SEP 28 0151	1728	8,640
N5JKY	Mike McShan	Edmond OK	SEP 27 1115	1239	6,195
NG0M	Charles Davis	Lincon NE	SEP 27 0515	1116	5,580
KB0ZDF	Dean Miller	Des Moines IA	SEP 28 2128	960	4,800
N6CHV	Michael Neverdosky	Sanford FL	SEP 28 0202	845	4,225
WB0CLD	Bill Launer	St. Charles MO	SEP 27 0239	811	4,055
K4JPN	Steve Ray	Warner Robins GA	SEP 27 2314	684	3,420
NR4N	Tom Thomas	Stone Mountain GA	SEP 28 2339	644	3,220
W4ED	Bob Edwards	Stone Mtn GA	SEP 27 1400	643	3,215
W4UK	Jerry Flanders	North Augusta SC	SEP 27 0127	574	2,870
AE4VQ	Scott Riley	Lexington KY	SEP 28 1202	508	2,540
KM5D	Eric Bates	Utica MI	SEP 27 1500	436	2,180

Submitted a report without codewords

KB0PZD	Bruce Barley	Wichita KS	SEP 28 0627	1186	-----
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-----  
The following successfully copied the 2 watt codeword "FALL"

CALL	NAME	LOCATION	DATE/TIME	MILES	MILES/WATT
NU7Y	Ron Stark	New Washoe City NV	SEP 27 0700	2337	1,168
KB0PTE	Wayne Alexander	Willard MO	SEP 27 0425	989	494

-----  
Please forgive me if I missed anyone.. or at a particular level.. or otherwise  
messed up. Again, thanks to all (most) of you who followed my suggested  
reporting format. It sure made things easier. Please send me any corrections.

Send me your suggestions for future beacons.

Stay tuned to QRP-L for future announcements.

- - - - -

Until next time, 73 and happy listening!

Pete Rossi - WA3NNA  
wa3nna@pete.resuba.com  
beacon@pete.resuba.com

-----  
Date: Fri, 13 Mar 1998 22:36:06 -0600  
From: "Dick Schneider" <rschneid@ix.netcom.com>  
To: qrp-l@Lehigh.EDU  
Subject: [6003] FS: Ten Tec Argonaut 505 QRP CW/SSB Xcvr & Accessories  
Message-ID: <199803140543.XAA23227@dfw-ix11.ix.netcom.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

FOR SALE: Ten Tec Argonaut 505 QRP CW/SSB Transceiver & Accessories

TenTec Argonaut 505 CW/SSB Transceiver \$250  
-3-5 Watts output. 80-10 Meters. No WARC.  
-Realigned and refurbished recently by Ten Tec  
-Excellent condition. No modifications.

TenTec 251 power supply \$100

TenTec 405 linear amp - 50 Watts - w/TenTec 207 ammeter \$150

Prices include shipping to CONUS

Email replies to rschneid@ix.netcom.com  
72/73 Dick AB0CD..

-----  
Date: Fri, 13 Mar 1998 22:36:06 -0600  
From: "Dick Schneider" <rschneid@ix.netcom.com>  
To: qrp-1@Lehigh.EDU  
Subject: [6004] FS:HW9 & Accessories  
Message-ID: <199803140543.XAA23231@dfw-ix11.ix.netcom.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

FOR SALE: HW9 CW QRP Transceiver & Accessories

HW9 CW Transceiver \$350  
-3-5 Watts output  
-80-10 Meters, including all WARC bands  
-Excellent condition. No modifications.

HFT-9A matching tuner \$50

HM9 matching wattmeter \$50

PSA9 matching power supply \$50

SP99 matching speaker \$25

Prices include shipping to CONUS

Email replies to rschneid@ix.netcom.com

72/73 Dick AB0CD..  
  
-----

Date: Fri, 13 Mar 1998 23:54:38 -0600  
From: "George T. Baker" <w5yr@swbell.net>  
To: jessqrp@concentric.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [6005] Re: DK3 Bootleggers.  
Message-ID: <350A1B9E.E069EC34@swbell.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Don (W6AAQ) mentions "patent disclosures" several times on his Web page. But I don't recall seeing any patent number. I suspect that he may have made patent applications, but these carry no direct protection unless a patent issues. An application does help to mark date of conception, etc. in event of a challenge and trial, however.

Hence, the number of imitators on the market. Regardless, Don has done a great service to ham radio and should receive all our thanks and financial support. There are many instances in which a patent is simply not worth the expense and effort, so he is not to be faulted for not having (presumably) patented his DK3 design. Truth be told, I suspect that the forerunner of his design, which was a manually adjusted mobile antenna which came out in the 40's, the Webster Bandspanner (?), may have displayed prior art in the scheme for mounting and adjusting the loading coil, etc.

I have been fighting my battle with the Patent Office since 1994 and will finally see my patent issue this month! It is a long, slow, and expensive process. Not for the faint of heart . . .

Jess Gypin wrote:

>  
> Hi all,  
>  
> I have been watching the thread on the screwdriver antennas and it  
> brought to mind something that I read on the web page for this antenna.  
> This is a refernece to all the other companies out there that have  
> copied the DK3 design. This is a direct quote from the DK3 web page.  
>  
> "BOOTLEGGERS"  
>  
> "Our 1993 data-base documents the full transactions with many of the  
> bootleg manufacturers who  
> purchased DK3 .. Screwdriver antennas from me. They then went into full  
> commercial production  
> without even so much as a "by your leave, sir" . No mention was made as  
> to where they 'picked' (?) up  
> the design. Some reprinted the copyrighted materials -- using white-out  
> to remove my call, headers,  
> footers and copyright references - then sold their copies at swap meets.  
> One did muster up enough  
> initiative to attempt a new cover page revealing his intelligence by  
> misspelling the word 'antenna' in 3  
> inch high letters! What do they say? --- No honor among  
> -----etc Nevertheless, the xyl,  
> W6HMD, and I spent kilo bucks in materials, legal fees and hundreds of  
> hours bringing the DK3 .. to  
> the wireless world... I always tell my ham friends when I steal one of

> their ideas at least they get credit  
> for a couple of weeks before claiming it as my own brain child!!!! The  
> contributors are always credited  
> in my books and compendiums. "  
>  
> Interesting no?  
>  
> --  
> Jess N0TFI <><  
> <http://www.concentric.net/~jessqrp> Personal Home page  
> <http://qsl.net/N0TFI> Fox Audio Page

--  
73, George  
Amateur Radio W5YR  
QRP-L #1373  
QRP ARCI #9583  
AutoPOWER Systems  
Fairview, TX

-----  
Date: Sat, 14 Mar 1998 00:12:21 -0800  
From: David Adams <[adamsclan@netgate.net](mailto:adamsclan@netgate.net)>  
To: QRP <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>  
Subject: [6006] On the road again  
Message-ID: <350A3BE5.621CED9D@netgate.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Well, Tuesday I make my annual trip to Arizona...I'll be in the  
Pheonix/Sun City (granparents) area from the 17th till the  
23rd...anything interesting going on in the area?

73 de dave, n9uxu

--  
David J Adams, N9UXU [adamsclan@netgate.net](mailto:adamsclan@netgate.net)

Amateur Radio, Flow Cytometry, Digital Photography and Parrot enthusiast  
<http://u1.netgate.net/~adamsclan>

-----  
Date: Sat, 14 Mar 1998 10:12:59 +0200 (EET)

From: "Arjen Raateland, FEI/Impacts Research" <Arjen.Raateland@vyh.fi>  
To: jgoemans@facstaff.wisc.edu  
Cc: qrp-1@Lehigh.EDU  
Subject: [6007] Re: SG-2020  
Message-ID: <01IUNI03TVEY8Y5M2F@vyh21.vyh.fi>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7BIT

> > I am the Section Manager for ARRL here in S.C. and get my QST a few days  
> > earlier than most. Check out the ad for the 2020 on page 156 of the april issue.  
> > Les K4NK  
> >

> \*\* Not the April Issue! \*\*

> Paul R Goemans WA9PWP

As a matter of fact the new rig sported with picture in two ad's in  
the March issue of Electron, the magazine of the Dutch RA league  
VERON. The price was ca. 1800 guilders.

73, oh2zaz  
Arjen Raateland  
-----  
Finnish Environment Institute, Helsinki, Finland  
SAS Support  
EMAIL: Arjen.Raateland@vyh.fi  
tel. +358 9 4030 0457  
fax +358 9 4030 0490  
.-.-.-.-

-----  
Date: Fri, 13 Mar 1998 23:05:52 +0000  
From: Frank G3YCC <g3ycc@g3ycc.prestel.co.uk>  
To: "'gqrp-1@blacksheep.org'" <gqrp-1@blacksheep.org>, qrp-1@Lehigh.EDU  
Subject: [6008] Marconi sites  
Message-ID: <s0s6TCAQvbC1Ewry@g3ycc.prestel.co.uk>  
MIME-Version: 1.0

>From packet BBS:

MARCONI's WEB Sites:

<http://amarconi.home.ml.org>  
<http://www.comune.bologna.it/iperbole/amarconi/>  
<http://www2.iperbole.bo.it/amarconi/>  
<http://www.angelfire.com/ma/amarconi/>

NEWS !!! in the GUGLIELMO MARCONI Associazione Home Page there are two  
Marconi's message in Real Audio system:

- 1 in italian language (6 minutes)
- 1 in english language (8 minutes)
- 1 movie avi (25 seconds)
- 1 movie gif

E-Mail: [amarconi@iperbole.bologna.it](mailto:amarconi@iperbole.bologna.it)

--

Frank G3YCC GQRP 042 (email [g3ycc@g3ycc.prestel.co.uk](mailto:g3ycc@g3ycc.prestel.co.uk))  
QRP Web Page: <http://www.homeusers.prestel.co.uk/g3ycc/>  
Packet: G3YCC@GB7HUL

-----  
Date: Sat, 14 Mar 1998 06:40:40 -0500 (EST)  
From: Bruce Muscolino <[w6toy@pop.erols.com](mailto:w6toy@pop.erols.com)>  
To: [daniel@pandora.lugs.org.sg](mailto:daniel@pandora.lugs.org.sg)  
Cc: QRP-L@lehigh.edu  
Subject: [6009] Re: How to make traps  
Message-ID: <2.2.16.19980314073236.21bf65c4@pop.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>

>1. How will adding traps affect performance on 20?

>

Adding traps for the higher bands like 17, 15, 12, and 10, will probably require you retune the entire antenna somewhat. The traps will probably alter the overall dimensions of the antenna. The way to account for this is to start tuning/pruning the antenna for the highest frequency and work your way down. Remember to recheck each frequency as you go.

>

>2. Are there limitations to what bands I can trap it for?

>

No, except the limitation of supportable weight. A trap is an LC switch. When presented a frequency it recognizes it acts as a very high impedance, presenting an "open circuit" to the frequency and thus "adjusting" the length of the antenna. One problem with trapping frequencies that are close together, i.e., 17 and 15, is there may not be much wire between the traps.



>

>3. How do I build a trap?

>

A trap is an LC circuit. In order to handle the high voltages that can be present when the circuit is well off tune the components must necessarily be large. One approach I've seen that results in pretty small traps is to wind a coil from coax and let the inductance and capacitance self resonate. I think this has appeared in ARRL Handbooks. Another point to ponder is that the trap's efficiency is related to the quality of its components.

>

>4. How does one evaluate the performance of a trap?

>

Helluva question. By using it, I guess!

73

-----  
Date: Sat, 14 Mar 1998 06:40:42 -0500 (EST)  
From: Bruce Muscolino <w6toy@pop.erols.com>  
To: daniel@pandora.lugs.org.sg  
Cc: QRP-L@Lehigh.EDU  
Subject: [6010] RE: ICOM Level Converter Schematic  
Message-ID: <2.2.16.19980314073239.21bf27ac@pop.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>

> Actually, regarding the particular 1992 QST circuit, I seem to recall  
>that there was some design error somewhere in the circuit somewhere. There  
>appears to be a missing resistor or a wrong resistor value somewhere that  
>resulted in the wrong voltage levels.

>

QST corrects known errors under the heading of "Feedback". Errors usually appear within one to three issues following the article, although they can appear even later. If there was "Feedback" on this article anyone with the December issue from that year can track it down. Also, one very valuable part of the CD-ROM collections of QST are the indices.

73

-----  
Date: Sat, 14 Mar 1998 06:40:48 -0500 (EST)

From: Bruce Muscolino <w6toy@pop.erols.com>  
To: jessqrp@concentric.net  
Cc: QRP-L@lehigh.edu  
Subject: [6011] Re: DK3 Bootleggers.  
Message-ID: <2.2.16.19980314073245.21bf5d46@pop.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Interesting, yes. Many years ago it was common practice to "reverse engineer" the products of other companies. This went on even in the honorable world of ham radio. What did it do? Well, the companies that copied other companies designs and brought them to market without enhancing them in any way fell by the wayside. The others, the BIG ones, learned from their competitor's plusses and minuses and used the knowledge to improve their own designs. They flourished.

These days there's an attitude out there that goes to the effect "if it's published I can copy it." True, and false. True, you can copy any published work for your own use. False that you can copy and resell a published item. This applies to magazine articles, manufacturer's schematics, and other intellectual properties.

Anything that is published is copyrighted by someone, even if it's only the publisher. As a sometimes magazine photographer copyright violations are a hot button with me. I've seen my work copied and resold and while I'm sort of honored, the bootlegger never maintains your quality, and eventually someone asks who took that lousy picture and there goes a sale.

Think about how often you see the request "Can anybody make me a copy of ..." on this list. Multiply that by the thousands of other Internet lists and newsgroups and you get an idea of the dimensions of the problem. I'd say his reaction is pretty mild. I've seen copyright infringement suits go in to the hundreds of millions of dollars!

73

-----  
Date: Sat, 14 Mar 1998 06:56:07 -0500 (EST)  
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>  
To: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [6012] Re: How to make traps  
Message-ID: <Pine.GS0.3.96.980314064432.594D-100000@larry>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Daniel,

Traps added to a 20 meter dipole for 17, 15, 12, and/or 10, may not be the best way to go. Commercial traps in some beams exceed a Q of 200, which is not always easy to obtain and maintain (in the weather, etc.) in small sizes.

You may wish to consider instead running separate dipole wires for each band of interest spaced below the lowest band wire. The greater the separation, the less the interaction, but of course, with a multiband dipole, there will be a maximum angle that is practical. Trim from the highest band downward, since the changes in the shorter wires will affect the longer ones more than trimming the longer ones will affect the shorter ones.

There are some notes on traps at my site. Essentially, the best tuned frequency for a trap is a bit lower in frequency than the band that it controls in order to equalize the gain of the inner and outer band antennas. However, in multi-trapped antennas, the losses accumulate for those bands where the trap acts as an interior loading element.

They certainly have their place, especially where someone needs an 80-40 or 40-30 combination and has only one good run for the wire. However, for the upper HF, the multi-wire dipole may be simpler and possibly even more effective.

Hope something here is useful.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off)(423) 974-7215
1434 High Mesa Drive	/	\	\	\	----	/\---	(Hm) (423) 938-6335
Knoxville, Tennessee	/\	\	\	\	/	/    /	(FAX)(423) 974-3509
37938-4443 USA	/	\	\	\			cebik@utk.edu
QRP/ARCI 2572	G-QRP	7203	CQC	125	NEQRP	347	NORCAL 1111 MIQRP 1432
NWQRP 401	ARRL Life:	Technical & Educational	Advisor				10-10 41159
QCWA 13211	scQRP	28	AK/QRP	343	CW Ops QRP Club	(VK) 476	FISTS 2600
	<a href="http://funnelweb.utcc.utk.edu/~cebik/radio.html">http://funnelweb.utcc.utk.edu/~cebik/radio.html</a>						

-----  
Date: Sat, 14 Mar 1998 13:56:06 +0200 (EET)

From: "Arjen Raateland, FEI/Impacts Research" <Arjen.Raateland@vyh.fi>  
To: chunt@macromedia.com  
Cc: qrp-1@lehigh.edu  
Subject: [6013] Re: Elmer101 Schematics  
Message-ID: <01IUNQKL8PEG8Y5PGH@vyh21.vyh.fi>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7BIT

> Depending upon how the printer is configured under Windows (i.e. usable  
> from DOS, etc) you \_should\_ (if you printer is PostScript) be able to just  
> do the following:

> copy <filename> <printer device>

> Example:

> copy schematic.ps LPT1:

> copy schematic.ps PRN:

> Which should yield the desired result. Occasionally, due to wierd printers,  
> Christian O. Hunt - QA Punk & Unix Demigod

While this is true, it doesn't work OK with big PS files on our network. Large PS files tend to fail to print completely. Maybe just 5 to 8 pages varying from one instance to the next. Because the number of pages printed varies, it's not a problem in the file itself, I think. Small PS files print OK.

The solution in our case seems to be to use Ghostview even though the printers shouldn't need it. (The real cause of the problem hasn't been found yet and it seems the IT department stopped looking once I found the GHOSTVIEW solution :-(

My 2 cents...

73, oh2zaz

Arjen Raateland

--... ..- - - - -

Finnish Environment Institute, Helsinki, Finland

SAS Support

EMAIL: Arjen.Raateland@vyh.fi

tel. +358 9 4030 0457

fax +358 9 4030 0490

..-.-.-

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Date: Sat, 14 Mar 1998 08:22:19 -0500  
From: K4AHK@ix.netcom.com  
To: ku7y@sage.dri.edu  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [6014] Re: April 98 QRP ARCI Quarterly  
Message-ID: <350A8487.701D@ix.netcom.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The Quarterly table of contents hit my mail box sometime between Friday morning and Saturday morning although it lists Wednesday as the origin. Looks fine.

Bill - K4AHK

-----  
Date: Sat, 14 Mar 1998 08:01:53 -0600  
From: launerb@crl.com (William H. Launer)  
To: qrp-l@lehigh.edu  
Subject: [6015] Elmer101 - Tools  
Message-ID: <v01530501b1303b622ddb@[192.0.2.1]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

qrp-l gang,

With the ongoing "Elmer 101" discussion, I realized that many of the new builders may not know what tools they will need. After I built the OHR-100A, I wrote the following article for our local club newsletter. The list is my own preference; others may have additional tools to add to the list. It's certainly open for discussion.

72/73 Bill wb0cld

-----  
TECH TOPICS-----WB0CLD

TOOLS AND TEST EQUIPMENT

TOOLS:

Electronic assembly doesn't require a lot of tools. The main thing to get quality tools, and take care of them. In other words, don't

throw them in the toolbox with the tools you use to fix your car or lawnmower (also don't let the kids carry them away!).

The tools I find indispensable for electronic construction are:

Long nose pliers - 4" and 6"

Diagonal cutters - 4" and 6"

Screwdrivers - get a variety of both small flat blade and Phillips screwdrivers

Nut drivers - a small socket set with a nut driver handle works well

Open-end wrenches - 1/4", 5/16", and 3/8" are handy to have; you can't always get at the nuts with a nut driver or socket

Adjustable wrench - a 4" or 6" wrench is useful for potentiometer and switch mounting nuts; it keeps you from scratching panels with a pliers

Soldering iron - 18W - 25W (max), with small tip

Solder sucker - the rubber bulb type works, but I prefer the spring-loaded kind

(no matter how many things you build, you'll have to remove misplaced or defective parts from time to time)

Small dog food can - put sponge or folded up paper towels in it, then moisten with water and use to clean soldering iron

Plastic ice cube trays - good for keeping parts sorted (egg cartons work well, too)

Clean bench space (or the kitchen table?) - wherever you choose to work, keep it clear and uncluttered; I cover the work surface with a piece of corrugated cardboard to prevent damage (when it gets ragged from use (or burned from the soldering iron) , just throw it away, and find another box)

Magnifier light - invaluable when you're soldering tightly spaced pc boards (usually available at sewing supply stores)

Optional tools:

Soldering gun - good for coax connectors, etc, but not for pc board work

Variable speed 3/8" electric drill - handy for chassis and panel construction

## TEST EQUIPMENT:

Typically, you don't any exotic test equipment. One item everyone needs is a good Multimeter. The digital readout units are fine for most things, but an analog VOM is necessary if you're trying to look for peaks or dips when you're aligning a receiver or transmitter. The digital units are just too slow to respond to a varying value. One of each type isn't a luxury, because you often need to monitor current and voltage at the same time. You can never have too many meters!

Another item that's not normally considered test equipment is a general coverage receiver. It's good for checking to see if an oscillator is working, and also for harmonics outside the coverage of a ham-band only receiver (it's good for SWL'ing, as well).

Frequency counters and oscilloscopes are handy, but you can usually find someone who has one you can use.

There are other "nice-to-haves", but we'll discuss them in later columns.

73, Bill

Bill Launer  
St. Charles, MO  
launerb@crl.com  
wb0cld@wb0cld.ampr.org [44.46.66.25]  
qrp-l #279            qrp arco #3551  
Grid Square EM48RT

-----  
Date: Sat, 14 Mar 1998 07:01:31 -0700  
From: Jess Gypin <jessqrp@concentric.net>  
To: Ron Polityka <wb3aal@talon.net>, qrp-L@lehigh.edu  
Subject: [6016] Re: DK3 Bootleggers.  
Message-ID: <350A8DBA.F5F2F70D@concentric.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Don Johnson W6AAQ is the inventor and creator of the screwdriver antenna. He is the one that the list group buy is being arranged through. His web page and some of the books he publishes have made mention of others that have "borrowed" his design and marketed them under their own brand. There are many out there. Don's point being that he has not ever been credited by these other "clone" antenna makers for the design that he has made famous. He is not referring to all of the amateurs out there that have made their own for their own use, he is referring to all of the commercial companies out there that are making big bucks from a design that has been ripped off from him. He still makes the antennas and sells them for less than a lot of the others.

Ron Polityka wrote:

> So who is the original creator?  
>  
> 73, Good DXing & QRPing  
> Ron de WB3AAL  
>  
> E-mail: wb3aal@talon.net  
> BBS: WB3AAL @ WB3FYL.#BER.PA.USA.NA  
>  
> EPA QRP # 1 QRP # 5318 10-10 # 13173  
> QRP-L # 1099 G-QRP # 3031 AK QRP # 309  
> Adventure Radio Society #380

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Jess N0TFI <><

<http://www.concentric.net/~jessqrp> Personal Home page

<http://qsl.net/N0TFI> Fox Audio Page

-----  
Date: Sat, 14 Mar 1998 08:11:00 -0700 (MST)  
From: Joe Gervais <vole@primenet.com>  
To: adamsclan@netgate.net  
Cc: qrp-l@Lehigh.EDU  
Subject: [6017] Re: On the road again  
Message-ID: <199803141511.IAA22652@usr06.primenet.com>



Howdy,

David (N9UXU) wrote:

>

> Well, Tuesday I make my annual trip to Arizona...I'll be in the  
> Pheonix/Sun City (granparents) area from the 17th till the  
> 23rd...anything interesting going on in the area?

Hech yeah - The AZ ScQRPions, of course! ;-)  
I'm sure we can gather enough AZ critters together  
for a QRP dinner. Also, on 3/19 we're all going  
to meet at Coldstone Creamery about a mile from  
where our very own AZ Fox (Mike, NQ7K) will be  
running the last Fox Hunt of the season. Big-time  
celebration!

And on a more general note... WILDFLOWERS! We're  
having the best wildflower display in literally  
decades. You have to drive an hour or two to find  
the \*really\* spectacular displays, but it's not  
to be missed!

Have a good trip and hope to hear from ya!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"Every man dies. Not every man really lives" -- Braveheart

-----

Date: Sat, 14 Mar 1998 11:06:54 EST  
From: ARDUJENSKI <ARDUJENSKI@aol.com>  
To: qrp-1@Lehigh.EDU, Frank.DH0JAE@t-online.de  
Subject: [6018] THANKS FOR KILLING THE GOLDEN GOOSE  
Message-ID: <4d80b404.350aab27@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Well gang.

I got an inquiry about Jerry Halls propagation charts and when I went to look  
for it had to do some detective work. The new site reference is:

<http://www.concentric.net/~jerrhall/>

But to my surprise there was thismessage:

"I have closed this site because too many people complain about the distance from their location to the nearest propagation terminal point."

Now this site was a great benefit to a lot of us; really nice tool to have. Jerry, after an inquiry even added a special curve for QRP operations. When I saw this note above it really enraged me. Here was another ham providing a service free of charge and the bitches and complainers killed it. I don't think anyone from this LIST would do that but we all can do something to maybe get it back. I don't have Jerry's email but if someone can provide that I would like those of us who have benefited from it (or might) could send him a note. I sorely miss the information but more importantly some of us have offended a fellow ham for no real reason. Maybe with a little persuasion he may offer it again.

If some one can provide me with Jerry Hall's e-mail it would be greatly appreciated.....fuming in Woodinville...Alan KB7MBI

-----  
Date: Sat, 14 Mar 1998 11:25:24 -0500  
From: "Bob Edwards, W4ED" <w4ed@flash.net>  
To: nq2rp@juno.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [6019] Re: Forwarding to Packet!  
Message-ID: <350AAF74.CDA46982@flash.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

B/BAMS Club Station wrote:

> BEWARE! ... FORGOT to remove the Juno ad on the bottom...

Better yet, NEVER quote an entire message, just use snips like above, ie, get to the point !!

--

Bob 72/73

<http://www.qsl.net/w4ed>

W4ED nr Atlanta @EM73wt

...."QRP", more from less....

```
      /|
     / |
    /  | \
   /| / E | \
  /_|/____|__\
 [\-----/
```

~~~~~

-----  
Date: Sat, 14 Mar 1998 08:22:05 -0800  
From: Bill Todd <bill@willapabay.org>  
To: qrp-1@Lehigh.EDU  
Cc: nwq-1@scn.org  
Subject: [6020] N7MFB's E-mail Adr change  
Message-ID: <1.5.4.32.19980314162205.006ebdc4@willapabay.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hello folks -

I am back in old Bay Center, after finishing up the Winter Quarter at school. Just one more quarter to go, before I return to the ranks of the employed.

I will not be picking up my mail at the school E-mail adr of N7MFB-7@JUNO.COM for a few weeks.

CUL, Bill-N7MFB

-----  
Date: Sat, 14 Mar 1998 09:44:16 -0700  
From: Brian Chesire <BCChesire@worldnet.att.net>  
To: chunt@macromedia.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [6021] Re: Elmer101 Schematics  
Message-ID: <350AB3E0.354C@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I have found that on my HP printer with postscript cartridge that I must use copy /b command from DOS, to get it to print properly. I thought postscript files wer all ASCII and didn't need the 8th bit but unless I specify a binary copy, I get either garbage or the schematic in little pieces.

73,s Brian  
WA5PP0 Tucson, AZ

-----  
Date: Sat, 14 Mar 1998 08:51:57 -0800 (PST)  
From: Stanley Wilson <microres@crl.com>  
To: Brian Chesire <BCChesire@worldnet.att.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [6022] Re: Elmer101 Schematics  
Message-ID: <Pine.SUN.3.91.980314085032.11061D-100000@crl2.crl.com>  
Mime-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I has able to decode and print the .ps schematics with windows 95 and  
ghostscript 4.03. printer is HP lazerjet 4P. I did have to offset the Y  
axis by -40 pts. looks nice Ghostscript is available on the web.

de stan ak0b

-----  
Date: Sat, 14 Mar 1998 12:40:40 -0600  
From: Tim Ahrens <tahrens@inetport.com>  
To: qrp-l@Lehigh.EDU  
Subject: [6023] Re: ICOM Level Converter Schematic  
Message-ID: <350ACF28.2E9F54B6@inetport.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Thanks to everyone who sent the information & places to get  
software! I was able to get the box running this morning,  
and all seems to be working ok.

You folks are really great! Glad I can say I'm part of the  
group.

Thanks to all

Tim W5FN

-----  
Date: Sat, 14 Mar 1998 13:17:20 -0600 (CST)  
From: Joe Smith <joe@cooldude.com>  
To: qrp-1@Lehigh.EDU  
Subject: [6024] Re: The Balanced Ham (Long)  
Message-ID: <Pine.LNX.3.95.980314131629.32056C-1000000@buster.hworx.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Good points Joe. Some folks don't have another life, some do, but don't give it much attention. But looking at history, and the state of some of the accomplishments made in modern history, alot of them were made by "obsessed" individuals. Nuf said.

And in case some have never read it from the ARRL Handbook:

The Amateur's Code

The Radio Amateur is:

CONSIDERATE...never knowingly operates in such a way as to lessen the pleasure of others.

LOYAL...offers loyalty, encouragement and support to other amateurs, local clubs, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.

PROGRESSIVE...with knowledge abreast of science, a well-built and efficient station and operation above reproach.

FRIENDLY...slow and patient operating when requested; friendly advice and counsel to the beginner; kindly assistance, cooperation and consideration for the interest of others. These are the hallmarks of the amateur spirit.

BALANCED...radio is an avocation, never interfering with duties owed to family, job, school or community.

PATRIOTIC...station and skill always ready for service to country and community.

--The original Amateur's Code was written by Paul M. Segal, W9EEA, in 1928.

-----  
We now return you to you regular qrp list programming.....

-----  
Date: Sat, 14 Mar 1998 14:41:56 EST  
From: N3BJ <N3BJ@aol.com>  
To: qrp-l@Lehigh.EDU  
Subject: [6025] Fwd: FS: Rare ICOM IC-731S QRP HF xcvr \*REPOST\*  
Message-ID: <d014a1b3.350add86@aol.com>  
Mime-Version: 1.0  
Content-type: multipart/mixed;  
    boundary="part0\_889904516\_boundary"

This is a multi-part message in MIME format.

--part0\_889904516\_boundary  
Content-ID: <0\_889904516@inet\_out.mail.aol.com.1>  
Content-type: text/plain; charset=US-ASCII

Original deal fell thru, so back on the market.....

--part0\_889904516\_boundary  
Content-ID: <0\_889904516@inet\_out.mail.aol.com.2>  
Content-type: message/rfc822  
Content-transfer-encoding: 7bit  
Content-disposition: inline

From: N3BJ <N3BJ@aol.com>  
Return-path: <N3BJ@aol.com>  
To: qrp-l@lehigh.edu  
Subject: FS: Rare ICOM IC-731S QRP HF xcvr  
Date: Sun, 8 Mar 1998 12:06:58 EST  
Organization: AOL (<http://www.aol.com>)  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

For Sale: ICOM IC731S, baby brother to the IC-735, identical except no final PA and fan. In very good condition with scanning microphone, internal keyer.

This is a classic QRP version of the longest running HF radio (because they did it right) ever produced. Rare and a great performer, besides being a

collectors item.

Just don't use it much, too many radios here.

\$650 shipped

Alan, N3BJ  
Bent Mountain, VA

--part0\_889904516\_boundary--

-----  
Date: Sat, 14 Mar 1998 19:57:32 +0000  
From: "Brian K. Short" <shortckt@primenet.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [6026] Re: The Balanced Ham (Long)  
Message-ID: <199803141955.MAA15738@smtp01.primenet.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Do balanced hams spend as much time on radio as internet?

>

>We now return you to you regular qrp list programming.....

--

"A burro is an ass. A burrow is a hole in the ground.  
You are expected to know the difference."

--

Brian (K7ON) Short shortckt@primenet.com  
<http://www.primenet.com/~shortckt>  
1994 E Laguna Dr Tempe, Az 85282  
Vox:(602)839-3484 Fax:(602)839-4829

--

-----  
Date: Fri, 13 Mar 1998 19:18:32 -0600  
From: tedkell@juno.com (Ted Kell)  
To: qrp-l@Lehigh.EDU  
Message-ID: <19980314.150930.-29026.4.tedkell@juno.com>

I found this on the net. ABSOLUTELY unrelated to QRP.

<http://server5550.itd.nrl.navy.mil/projects/haarp/cgi.cam.fcgi>

Ted Kell  
KC5CUW  
Near the Johnson Space Center  
Houston, Texas  
<tedkell@juno.com> -or- <tkell@nyx.net>

---

You don't need to buy Internet access to use free Internet e-mail.  
Get completely free e-mail from Juno at <http://www.juno.com>  
Or call Juno at (800) 654-JUNO [654-5866]

---

Date: Sat, 14 Mar 1998 14:19:52 MST  
From: w7dib@juno.com (Ralph Kline)  
To: ccart@dns.vidtel.com  
Cc: qrp-l@lehigh.edu  
Subject: [6028] Re:DK3, Packing material:  
Message-ID: <19980314.141952.8534.0.w7dib@juno.com>

Hi Om:  
Try a Rug Laying Shop:

73

Ralph W7DIB-Old Old Timers Club 61 Years # 3672-Fists Club# 3617-NorCal  
Qrp #1482.

---

You don't need to buy Internet access to use free Internet e-mail.  
Get completely free e-mail from Juno at <http://www.juno.com>  
Or call Juno at (800) 654-JUNO [654-5866]

---

Date: Sat, 14 Mar 1998 15:43:07 -0500  
From: Paul Stroud <aa4xx@ipass.net>  
To: klqrp <klqrp@waterw.com>  
Cc: QRP-L <QRP-L@Lehigh.EDU>  
Subject: [6029] WQ4RP/NA67 Portsmouth Island QSL's



Message-ID: <350AEBDB.D3D501CF@ipass.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gang,

Please let me know if you have not received your QSL card from last April's KL expedition to Portsmouth Island. In your (personal) posting, indicate all report info--your call, date, freq, RST, mailing address, etc...

Thanks es 72,  
Paul AA4XX

-----  
Date: Sat, 14 Mar 1998 15:46:28 -0500  
From: Paul Stroud <aa4xx@ipass.net>  
To: klqrp@waterw.com  
Cc: QRP-L <QRP-L@Lehigh.EDU>  
Subject: [6030] Re: beacons  
Message-ID: <350AECA4.2147C462@ipass.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Dave Slade wrote:

>  
> Guys, we need a little advanced notice on those beacon tests.....  
> I like to try to copy those Carolina Smites, but am reading the  
> e-mail the next day here.....CU on KL Net Sunday nite...  
>  
> Dave, K2SJB

Sir Dave,

I know it's frustrating to be left out of the game. Such was not our intent.

The last two beacon tests (160 and 80M) were meant to confirm that the beacons and their antennas were working as anticipated--not as a scheduled beacon event--in preparation for the main event at Core Banks March 27-29th.

The frequencies and times will be preannounced well in advance, as we want as many folks as possible to share in the listening fun. We will be providing several opportunities during the year for our QRP friends to go for the gusto. W4UK will be preparing certificates for those of you who copy the Core Banks beacon(s). More on that within the next few days.

During W3RDF's SMiTe run last night, W4WDN (NC) and N2TNN (NNJ) copied the Myrtle Beach SMiTe beacon very well, indicating that Don's 250 mW signal will be up to the task given decent band conditions. The beacon controller seems to be working FB, and the SMiTe's keying is clean as a whistle.

72,

Paul

Core Banks info:

<http://www.ipass.net/~aa4xx/core.htm>

-----  
Date: Sat, 14 Mar 1998 16:49:04 -0500  
From: Jim Stafford W4QO <w4qo@america.net>  
To: qrp-l@Lehigh.EDU  
Subject: [6031] Membership info - QRP-ARCI  
Message-ID: <350AFB50.6A97@america.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

QRP-L gang,

With the recent posting of the contents of the April issue of QRP Quarterly, there seems to be some interest regarding how to join the QRP Amateur Radio Club International. The info is available on our web site: [www.qrparci.org](http://www.qrparci.org), but here also is information describing what addresses to use for sending funds for new memberships or renewals of subscriptions, and inquiries about membership status, for the QRP ARCI.

Ken Evans, W4DU, is the QRP ARCI Treasurer, and all funds for new memberships and renewals for those in North America should be sent to him. See below for non-North American applicants.

North American applicants please make checks out to QRP ARCI, and send

to  
Ken at:

QRP ARCI  
848 Valbrook Court  
Lilburn, GA 30047-4280

Ken may be reached by email at [w4du@bellsouth.net](mailto:w4du@bellsouth.net)

DX Membership (for all non-North American members):  
Checks for 13.50 UK pounds ONLY. We can accept Visa / Mastercard at 14  
UK  
pounds. Make checks payable to "GQRP" (ONLY), and send to:  
Dick Pascoe, G0BPS  
Seaview House, Crete Road East  
Folkestone. Kent CT18 7EG UK

DX Membership funds can also be paid in US Dollars. Send \$20 check or  
money order to Ken Evans at the above address.

PLEASE NOTE THAT INQUIRIES about membership status, CHANGES OF ADDRESS,  
or other matters pertaining to membership in QRP ARCI which do NOT  
involve funds transfers should go to the new Membership Chair, Dave  
Johnson, WA4NID, at the following address:

Dave Johnson  
2522 Alpine Rd.  
Durham, NC 27707-3820

Dave may be reached by email at [WA4NID@amsat.org](mailto:WA4NID@amsat.org)

For your information, here is the form that we ask folks to fill out  
when  
applying for or renewing membership. We just need a little bit of info:  
USA applicants: PLEASE supply ZIP-PLUS-FOUR!

.....

New Member/Renewal Data Sheet                      NEW MEMBER? \_\_\_\_\_

Full Name \_\_\_\_\_ CALL \_\_\_\_\_ QRP# \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_ State/Country \_\_\_\_\_ Post Code \_\_\_\_\_

New Address? \_\_\_\_\_                      New Call? \_\_\_\_\_

(Optional but helpful:)

Email address \_\_\_\_\_ Previous Callsign(s) \_\_\_\_\_

Home Phone (incl. area code) \_\_\_\_\_

Work Phone (incl. area code) \_\_\_\_\_

Packet address \_\_\_\_\_

Check or Money Order in US Funds payable to QRP ARCI (US Dollars sent to Ken Evans) or GQRP (UK Pounds sent to Dick Pascoe). Do not send Cash!!

.....

Currently, membership rates are \$15 for US members, \$18 for Canadian members, and \$20 for DX members, if paid in US Dollars and sent to Ken Evans. See other instructions above for payment of funds to our rep in the UK (for non-North American applicants).

Back issues of the QRP Quarterly are available from Danny K3TKS (k3tk@abs.net), and you can see a recent account of available issues on the web page accessible from the QRP ARCI home page at <http://www.qrparci.org/> (follow the link in the menu!)

I hope this info is helpful. Please let me know if you have any questions,  
and thanks for your support of QRP ARCI !!!

Sincerely,

Dave, WA4NID

-----

Date: Sat, 14 Mar 1998 17:19:12 -0500 (EST)  
From: n4js@pobox.com  
To: qrp-l@Lehigh.EDU  
Subject: [6032] Cascade  
Message-ID: <XFMail.980314171912.n4js@pobox.com>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 8bit  
MIME-Version: 1.0

Just finished building my Cascade(I bought the kit from someone on the list here). Anyway, it works great. Have the "new" silver mica caps in the band

modules. Just made the first SSB QSO on 75m in a few years!

Sent at 17:19:12 on 14-Mar-98

John L. Sielke n4js@amsat.org n4js@pobox.com  
n4js@qsl.net NJ Grid:FM29LN  
<http://www.qsl.net/n4js> NJ-QRP #57 QRP-L #884  
QRP-ARCI CQC #443 CQrp #50 AKQrp ARQrp  
NE-QRP #507 G-QRP #9544 NorCal #1989 QCWA FISTS #2781 ARS #243

-----  
Date: Sat, 14 Mar 1998 16:50:57 -0600  
From: Mike Martin <mmartin@netins.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [6033] Re: newbie  
Message-ID: <350B09D0.80105DE2@netins.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

First of all, I want to thank everyone for all the responses, I have gotten some good ideas. Now I just have to make some decisions.

I guess I should have been a bit more specific. While I am new to QRP operation, I am not new to ham radio. I was first licensed in 1968 as WN4MWD, back when novice tickets were 1-year, non-renewable. That one expired during a trip to Japan for Uncle Sam's Army. After I got out, I got my present call in 1973. Stayed an inactive novice for years and years, then suddenly got re-bitten in 1989 and upgraded to general. Have been trying to get to advanced, but the test has kicked my tail a number of times.

Again, thanks for all the advice. Don't be surprised if I ask for more.

73

Mike  
KA0AMA

-----  
Date: Sat, 14 Mar 1998 16:54:29 -0600 (CST)

From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: Low Power Group <qrp-l@lehigh.edu>  
Subject: [6034] N6WG  
Message-ID: <Pine.SOL.3.91.980314165249.19008A-100000@GPFN1.GPFN.SK.CA>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Can anyone supply me with Bob's (N6WG), e-mail address please?...tnx & 72 -  
Bruce (VE5RC)

e-mail: rattray@gpfn.sk.ca

-----  
Date: Sat, 14 Mar 1998 23:08:29 +0000  
From: SEAB&SHARON LYON <SSLYON@worldnet.att.net>  
To: qrp-l@Lehigh.EDU  
Subject: [6035] FOX LOG 03-04-98 FINAL (?)  
Message-ID: <19980314230828.AAA19085@LOCALNAME>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Here it is.. better nate than lever... with apologies to  
punctuality pervs. The 03-10-98 log will be sent tonite.  
73/72 =s=

.....  
FOX-030498

| TIME  | STA.   | FREQ  | SNT | RCV | QTH | NAME  | #    |
|-------|--------|-------|-----|-----|-----|-------|------|
| 02:59 | K10J   | 7.041 | 559 | 559 | TX  | OWEN  | 732  |
| 03:02 | AA9L   | 7.041 | 559 | 559 | WI  | RICH  | 1355 |
| 03:03 | WA9PWP | 7.041 | 559 | 569 | WI  | PAUL  | 127  |
| 03:05 | K50N   | 7.041 | 559 | 559 | NM  | GARY  | 770  |
| 03:06 | W0CH   | 7.041 | 549 | 559 | MO  | DAVE  | 618  |
| 03:08 | K1MG   | 7.041 | 549 | 449 | CA  | MIKE  | 614  |
| 03:09 | KA5T   | 7.041 | 549 | 449 | TX  | LARRY | 89   |
| 03:10 | K5ZTY  | 7.041 | 559 | 559 | TX  | BILL  | 473  |
| 03:11 | K5ID   | 7.041 | 549 | 559 | AR  | KEN   | 652  |
| 03:13 | K0EVZ  | 7.041 | 559 | 569 | MN  | DOC   | 861  |
| 03:14 | KU7Y   | 7.041 | 449 | 559 | NV  | RON   | 17   |
| 03:15 | K5JHP  | 7.041 | 549 | 339 | TX  | BILL  | 825  |
| 03:17 | AA0ZZ  | 7.041 | 549 | 559 | MN  | CRAIG | 1238 |
| 03:19 | NQ7X   | 7.041 | 449 | 559 | AZ  | FLOYD | 343  |
| 03:20 | N5JI   | 7.041 | 449 | 449 | TX  | DICK  | 1054 |
| 03:22 | K5ID   | 7.039 | 559 | 559 | AR  | KEN   | 652  |

|       |        |       |     |     |     |       |      |
|-------|--------|-------|-----|-----|-----|-------|------|
| 03:24 | W5SB   | 7.041 | 449 | 449 | TX  | BILL  | 1279 |
| 03:25 | AB7TT  | 7.041 | 449 | 449 | AZ  | JOE   | 191  |
| 03:27 | W0RW   | 7.041 | 559 | 579 | CO  | PAUL  | 2W   |
| 03:28 | AB5UA  | 7.041 | 449 | 559 | OK  | CLIF  | 478  |
| 03:30 | K5UP   | 7.041 | 339 | 559 | OK  | GLEN  | 21   |
| 03:32 | W5HNS  | 7.041 | 449 | 459 | TX  | HENRY | 178  |
| 03:33 | N4AN   | 7.041 | 339 | 539 | NC  | JOE   | 3W   |
| 03:36 | N0TU   | 7.041 | 549 | 559 | CO  | STEVE | 911  |
| 03:40 | WE6W   | 7.041 | 539 | 329 | CA  | ED    | 1068 |
| 03:44 | VE5RC  | 7.041 | 559 | 559 | SK  | BRUCE | 886  |
| 03:48 | N7IR   | 7.041 | 539 | 559 | AZ  | GARY  | 1330 |
| 03:51 | N1TP   | 7.041 | 559 | 559 | FL  | TOM   | 1317 |
| 03:52 | WB0T   | 7.041 | 539 | 339 | IA  | JERRY | 1268 |
| 03:56 | W5FN   | 7.041 | 559 | 559 | TX  | TIM   | 586  |
| 03:57 | WB0ATR | 7.041 | 539 | 559 | MN  | SCOTT | 1455 |
| 03:58 | K5VUU  | 7.041 | 559 | 559 | TX  | ED    | 1343 |
| 04:00 | W6SU   | 7.041 | 549 | 559 | CA  | JOHN  | 48   |
| 04:06 | KB9IUA | 7.041 | 549 | 449 | IL  | KEVIN | 384  |
| 04:07 | N6WG   | 7.041 | 549 | 339 | CA  | BOB   | 26   |
| 04:11 | AB7TK  | 7.041 | 559 | 339 | ID  | RANDY | 102  |
| 04:12 | N7GS   | 7.041 | 549 | 549 | MT  | MAL   | 815  |
| 04:14 | K2VCO  | 7.041 | 339 | 229 | CA. | VIC   | 725  |
| 04:18 | AC5JH  | 7.041 | 549 | 449 | LA  | TOM   | 1319 |
| 04:20 | K0SU   | 7.041 | 339 | 229 | CO  | NICK  | 539  |
| 04:22 | K5FO   | 7.041 | 339 | 559 | TX  | CHUCK | 1    |
| 04:25 | AA5TA  | 7.041 | 339 | 339 | TX  | LARRY | 1245 |
| 04:30 | W6ZH   | 7.041 | 339 | 549 | CA  | PETE  | 257  |
| 04:33 | K06KA  | 7.041 | 229 | 229 | AZ  | BOB   | 176  |
| 04:36 | K4BES  | 7.041 | 229 | 579 | AL  | DAN   | ?    |
| 04:41 | KI7MN  | 7.041 | 339 | 229 | AZ  | BOB   | 271  |
| 04:48 | AC6LA  | 7.041 | 229 | 559 | CA  | DAN   | 515  |
| 04:51 | N7CQR  | 7.041 | 339 | 339 | OR  | DAN   | 502  |
| 04:57 | WB0T   | 7.041 | 559 | 559 | IA  | JERRY | 0.5W |

Seab Lyon, AA1MY, Bethel, CT, USA  
 FN-31-HJ; ARRL; QCWA; ACRI#9253;  
 QRP-L#574; NEQRP#511; Pres., C.A.R.A.:  
<http://www.danbury.org/org/cara/>

-----  
 Date: Sat, 14 Mar 1998 16:38:02 -0700  
 From: "James R. Duffey" <jr3m@maxwell.com>  
 To: qrp-l@lehigh.edu  
 Subject: [6036] Elmer 101 PostScript Printing on the Mac  
 Message-ID: <v03007800b130c2634390@[192.31.66.158]>

Mime-Version: 1.0  
Content-Type: text/enriched; charset="us-ascii"

I was able to print the schmatic after removing the period and exclamation point from the first line. When I downloaded it the first line read;

```
<fontfamily><param>Times</param><bigger>".%! PS-Adobe-1.0: For Apple  
LaserWriter</bigger></fontfamily>"
```

which my printer claimed offended it, so I changed it to;

```
<fontfamily><param>Times</param><bigger>"% PS-Adobe-1.0: For Apple  
LaserWriter</bigger></fontfamily>",
```

which produced a fine PostScript facsimile of Chuck's drawing of Dave's design.

No, I don't know why this worked; I just looked at the part that the printer found offensive, the .%, and changed it to look like the next line, just a plain %. This is how I approach software. Its not pretty, but it often works. Lots better than punching cards, 8^), and getting back a 4 inch thick printout with a line stating overflow error on each page. Kind of like a crude surgeon; cut out the bad part, and hope for the best.

I used LaserWriter Utility, which can be found hidden away on the system CD or floppies, or from Apple's web site, running on a 7500/100 (OS8.1) to a LaserWriter 16/600.

I just noticed my copy of BBEdit has a PostScript function as well so I might try that as well.

Us MacAddicts can handle it. - Dr. Megacycle KK6MC/5

James R. Duffey (505) 764-3143

Principal Scientist (505) 843-7995 (FAX)  
Maxwell Technologies Inc/Albuquerque Division



Suite 300

2501 Yale Blvd SE

Albuquerque, NM 87106

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End of QRP-L Digest 1029

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